R-145

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	IM-STP-00MS(265)	148	198

EACH BRIDGE JOINT & DECK REPLACEMENT CONSISTS OF

JOINT & EDGE BEAM REPLACEMENT ---------- SPECIAL DESIGN

BAR BENDING DETAILS ---------- GA. STD. 3901 (8-21-96)

TRAFFIC CONTROL DETAIL ---------- GA. STD. 9102 (11-25-96)

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITIES	UNIT	PAY ITEM
449-1620	10	m	LOW-DENSITY, CLOSED CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO - 39, BENT NO 1
449-1620	10	m	LOW-DENSITY, CLOSED CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO - 39, BENT NO 5
461-2000	151	m	RESEALING BRIDGE JOINTS, TP-D
504-0600	6	m^3	TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC, BR NO - 39
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 39 (326)
540-1202	LUMP		REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 39

UTILITIES

GAS MAIN.....ATLANTA GAS LIGHT COMPANY
TELEPHONE.....BELLSOUTH
WATER MAIN.....UNITED WATER SERVICES ATLANTA

RALPH WHITEHEAD ASSOCIATES, INC.
3300 N.E. EXPRESSWAY
SUITE 3-B
ATLANTA, GA 30341
Voice: 770-452-0797
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GENERAL NOTES

METRIC PLANS - THESE PLANS ARE DETAILED USING THE METRIC (SI) SYSTEM OF UNITS. DIMENSIONS SHOWN IN THE PLANS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED. ELEVATIONS ARE IN METERS. REINFORCING BARS IN METRIC SIZE DESIGNATIONS SHOWN SHALL BE PROVIDED AS PER ASTM A 615M. IN THE BAR MARK, THE FIRST TWO DIGITS ARE THE METRIC BAR SIZE (I.E., BAR 1314 IS A NO. 13 METRIC SIZE BAR).

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 1995 METRIC EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 19 mm UNLESS OTHERWISE NOTED.

EXISTING BRIDGE PLANS - PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE EXISTING BRIDGE WAS BUILT UNDER PROJECT NUMBER I-285-1(29)123.

DIMENSIONS AND ELEVATIONS - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR BUILDING FORMS. LIGHT LINES INDICATE THE EXISTING STRUCTURE AND HEAVY LINES INDICATE THE NEW STRUCTURE.

EPOXY RESIN ADHESIVE - EPOXY RESIN ADHESIVE TYPE II SHALL BE APPLIED TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA STANDARD SPECIFICATIONS. COST OF EPOXY ADHESIVE AND ITS APPLICATION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - EXISTING REINFORCEMENT TO BE UTILIZED IN NEW CONSTRUCTION SHALL BE BENT IN A MANNER TO PROVIDE THE MAXIMUM LAP POSSIBLE OR AS SHOWN ON THE PLANS. EXISTING REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

WELDING - ALL WELDING ON GEORGIA D.O.T. PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA D.O.T. OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.

EXISTING ANCHOR BOLTS - TIGHTEN OR REPLACE THE LOOSE ANCHOR BOLTS AT THE FOLLOWING LOCATIONS:
BRIDGE NO 39 ---- BENT 5 - BEAM 1
BOLTS UNABLE TO BE TIGHTENED SHALL BE REMOVED AND REPLACED WITH NEW 25 mm Ø SWEDGED ANCHORS, 450 mm LONG, WITH HEX NUTS AND 10 mm X 80 mm WASHERS. CLEAN HOLES THOROUGHLY AND USE HILTI HIT HY-150 FASTENING SYSTEM OR APPROVED EQUAL TO ANCHOR THE BOLTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. NUTS, WASHERS AND BOLTS SHALL BE STAINLESS STEEL ASTM A-276 TYPE 304. COST SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

INCIDENTAL ITEMS - COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING AND BENDING OF EXISTING REINFORCEMENT, JOINT FILLERS, SAW CUTS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

TRAFFIC CONTROL - TRAFFIC LANES SHALL BE AS SHOWN ON THE CONSTRUCTION SEQUENCE.

RESTRICTED TRAFFIC - THE OFFICE OF PERMITS AND ENFORCEMENT (404-653-8529) SHALL BE CONTACTED 14 DAYS PRIOR TO LANE CLOSURE SO THAT MOBILE HOMES OR OTHER LARGE LOADS MAY BE REDIRECTED.

STAGED CONSTRUCTION WILL BE REQUIRED IN ORDER TO MAINTAIN TRAFFIC THROUGHOUT THE PROJECT. CONSTRUCTION STAGING PLANS ARE INCLUDED AND ARE FOR GUIDANCE. THE CONTRACTOR MAY ELECT TO DESIGN HIS OWN STAGING PLAN, SUBJECT TO THE APPROVAL OF THE ENGINEER. SEE "SPECIAL PROVISION - SEQUENCE OF OPERATIONS".

SUBSTRUCTURE QUANTITIES, SUCH AS CONCRETE AND REINFORCEMENT, ARE INCLUDED IN THE SUPERSTRUCTURE QUANTITIES.

EXISTING BRIDGE JOINTS - EXISTING BRIDGE JOINTS, OTHER THAN THOSE AT BENTS 1 & 5, SHALL BE CLEANED OF ALL DIRT, REFUSE, AND EXISTING SEALANT AND SEALED USING SILICONE SEALANT (TYPE D) AS PER SUB-SECTION 461.03 OF THE GEORGIA SPECIFICATIONS. SPALLS AT JOINTS TO BE RESEALED SHALL BE REPAIRED, AS DIRECTED BY THE ENGINEER, BY SQUARE CUTTING TO A MINIMUM DEPTH OF 25 mm, EPOXY COATING THE AREA, AND THEN PATCHING WITH AN APPROVED NON-SHRINK GROUT. COST OF REPAIRS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA STANDARD SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

BARRIERS, HANDRAILS AND/OR GUARDRAILS SHALL BE REMOVED AND REPLACED AS NECESSARY TO OBTAIN ACCESS TO THE JOINTS. SECTION OF BARRIER REPLACED SHALL MATCH EXISTING,AND EXISTING BARRIER REINFORCEMENT SHALL REMAIN. PRIOR TO OPENING ADJACENT LANE TO TRAFFIC, THE HANDRAILS AND/OR GUARDRAILS SHALL BE REPLACED TO ORIGINAL POSITION AND SHALL BE SECURELY ANCHORED TO SUPERSTRUCTURE ACCORDING TO ORIGINAL PLANS. COST SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

THE CONTRACTOR SHALL FURNISH POLICE OFFICERS AND APPROPRIATE VEHICLES TO ASSIST DURING NIGHTTIME OPERATIONS. COST SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL.

PAINTING - ANY DAMAGE TO THE PAINT OF THE BEAMS DURING REMOVAL AND/OR REPLACING OF EDGE BEAMS SHALL BE REPAIRED USING SYSTEM VI PAINT SYSTEM. ALL PAINTING SHALL BE IN ACCORDANCE WITH SECTION 535 OF THE GEORGIA SPECIFICATIONS. THE COST OF PAINTING SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

EDGE BEAM DESIGN DATA

SPECIFICATIONS ---------- AASHTO 1996
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL MS-18 AND/OR MILITARY LOADING --------- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ---------- 1.44 kN/m^2

CONCRETE: SUPERSTRUCTURE ---------- CLASS AA, f'_c = 25 MPa

REINFORCEMENT STEEL: ---------- GRADE 420, f_y = 420 MPa

BRIDGE NO. 39

Heath & Lineback Engineers INCORPORATED
12 POWDER SPRINGS STREET, SUITE 240
MARIETTA, GEORGIA 30064

GEORGIA
DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION-OFFICE OF MAINTENANCE

GENERAL NOTES
JOINT & EDGE BEAM REPLACEMENT ON
FORREST PARK ROAD (CS 3186) OVER I-85

FULTON COUNTY, GA. IM-STP-00MS(265)

SCALE: NO SCALE DECEMBER 1999

BY	REVISIONS	DATE

BRIDGE SHEET 2 OF 4

DESIGNED DJM | CHECKED GMC | REVIEWED
DRAWN CEC | DESIGN GROUP MAINTENANCE | APPROVED